

WE CLAIM:

- 1        1. A door lock apparatus, comprising the combination of:
  - 2            a door;
  - 3            a trim plate securable to the outside of said door;
  - 4            a cylindrical lock apparatus including a latchbolt, a lock body having a retractor for said latchbolt, a spindle inwardly extending from said lock body and coupled to said retractor for unlatching said latchbolt upon rotation of said spindle, and a handle securable to said spindle for rotating said spindle;
  - 5            a cylinder lock including a housing and a cylinder actuatable for rotation in said housing, and a cam secured to said cylinder and rotatable therewith;
  - 6            said lock body with said spindle extending therefrom secured to said trim plate independently of said door and inwardly of said trim plate; and
  - 7            said housing of said cylinder lock secured to said trim plate
  - 8            independently of said door and outwardly extending from said lock body, and
  - 9            with said cam coupled to said retractor for unlatching said latchbolt upon
  - 10          rotation of said cylinder.

- 1        2. The apparatus according to Claim 1, further including:
  - 2            a key insertable in said cylinder lock and rotatable for rotating said
  - 3            cylinder.
- 1        3. The apparatus according to Claim 2, wherein:
  - 2            said cylinder lock is a mortise lock cylinder.
- 1        4. The apparatus according to Claim 1, wherein:
  - 2            said trim plate includes a pull handle for permitting said door to be
  - 3            pulled open when said plate is secured to said door and with said retractor
  - 4            unlatching said latchbolt.
- 1        5. The apparatus according to Claim 1, wherein:
  - 2            said trim plate is a pull plate.
- 1        6. The apparatus according to Claim 1, wherein:
  - 2            said trim plate includes a door engaging section securable to said door, a
  - 3            pull handle extending from said door engaging section, and a top edge and a
  - 4            bottom edge tapering toward said pull handle from said door engaging section.

1           7. The apparatus according to Claim 2,

2   wherein

3           said trim plate includes an opening;

4   and further including

5           an attachment plate secured to said trim plate independently of said door,

6           said attachment plate including an opening in registration with said opening in

7           said trim plate, said attachment plate releasably securing said cylinder lock

8           thereto with said cylinder lock inserted in said openings.

1           8. The apparatus according to Claim 7, wherein:

2           said opening in said attachment plate and said opening in said trim plate

3           are configured for facilitating outward withdrawal of said cylinder lock with said

4           key inserted in said cylinder lock.

1           9. The apparatus according to Claim 7,

2   wherein

3           said attachment plate secures said lock body to said trim plate.

1           10. The apparatus according to Claim 9, wherein:

2           said opening in said attachment plate and said opening in said trim plate

3           are configured for facilitating outward withdrawal of said cylinder lock with said

4           key inserted in said cylinder lock.

1           11. The apparatus according to Claim 1,

2   including

3           an attachment plate secured to said trim plate independently of said door;

4   and wherein

5           said lock body and said housing of said cylinder lock are secured to said

6           attachment plate independently of said door.

1           12. The apparatus according to Claim 11, wherein:

2           said trim plate includes an opening;

3           said attachment plate includes an opening in registration with said

4           opening in said trim plate; and

5           said housing of said cylinder lock is removably secured to said

6           attachment plate through said openings.

1           13. A door lock apparatus, comprising the combination of:

2            a door;

3            a door trim securable to a face of said door;

4            a cylindrical lock apparatus including a latchbolt, a lock body having a  
5            retractor for said latchbolt, a spindle extending from a first side of said lock  
6            body and coupled to said retractor for unlatching said latchbolt upon rotation of  
7            said spindle, and a handle securable to said spindle for rotating said spindle;

8            a cylinder lock including a housing and a cylinder actuatable for rotation in  
9            said housing, said cylinder lock extending from a second side of said lock body  
10           opposite said first side;

11           a cam secured to said cylinder and rotatable therewith, said cam coupled  
12           to said retractor for unlatching said latchbolt upon rotation of said cylinder; and

13           said cylinder lock secured to said door trim independently of said door  
14           with said cylinder rotatably actuatable from one side of said door trim, and said  
15           lock body secured to said door trim independently of said door with said spindle  
16           rotatable from another side of said door trim opposite said one side.

1        14. The apparatus according to Claim 13, further including  
2                    a key insertable in said cylinder lock and rotatable for rotating said  
3                    cylinder.

1        15. The apparatus according to Claim 14, wherein:  
2                    said cylinder lock is a mortise lock cylinder.

1        16. The apparatus according to Claim 13, wherein:  
2                    said door trim is a pull plate.

1        17. The apparatus according to Claim 16, wherein:  
2                    said pull plate includes a door engaging section securable to said door, a  
3                    pull handle extending from said door engaging section, and a top edge and a  
4                    bottom edge tapering toward said pull handle from said door engaging section.

1        18. The apparatus according to Claim 13,  
2        wherein  
3                    said door trim includes an opening;  
4        and further including  
5                    an attachment plate secured to said door trim independently of said door,  
6                    said attachment plate including an opening in registration with said opening in  
7                    said door trim, said attachment plate releasably securing said cylinder lock  
8                    thereto with said cylinder lock inserted in said openings.

1           19. The apparatus according to Claim 18, wherein:

2           said opening in said attachment plate and said opening in said door trim  
3           are configured for facilitating outward withdrawal of said cylinder lock upon  
4           rotation of said cylinder.

1           20. The apparatus according to Claim 18, wherein:

2           said door trim is a pull plate.